

PRELIMINARY INFORMATION SHEET



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* THIS STANDARD IS ONLY AVAILABLE IN U.S. CUSTOMARY (ENGLISH) UNITS

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA Date: 7/2000
 DRAINAGE AREA: N/A
 CHARACTER OF TERRAIN: N/A
 STREAM CHARACTERISTICS: N/A
 NATURE OF STREAMBED: N/A

PEAK FLOW DATA
 Q 2.33 = N/A Q 50 = N/A
 Q 10 = N/A Q 100 = N/A
 Q 25 = N/A Q 500 = N/A

DATE OF FLOOD RECORD: N/A
 ESTIMATED DISCHARGE: N/A
 WATER SURFACE ELEV.: N/A
 NATURAL STREAM VELOCITY: N/A
 ICE CONDITIONS: N/A
 DEBRIS: N/A
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? N/A
 IS ORDINARY RISE RAPID? N/A
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? N/A
 IF YES, DESCRIBE: N/A

WATERSHED STORAGE: N/A HEADWATERS: N/A
 UNIFORM: N/A
 IMMEDIATELY ABOVE SITE: N/A

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: STEEL GIRDERS ENCASED IN CONCRETE
 YEAR BUILT: (1910)
 CLEAR SPAN(NORMAL TO STREAM): 9.90 m
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A
 DISPOSITION OF STRUCTURE: Remove
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:
 Q2.33 = N/A VELOCITY = N/A
 Q10 = N/A " N/A
 Q25 = N/A " N/A
 Q50 = N/A " N/A
 Q100 = N/A " N/A

LONG TERM STREAMBED CHANGES: N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: N/A
 FREQUENCY: N/A
 RELIEF ELEVATION: N/A
 DISCHARGE OVER ROAD @Q100: N/A

UPSTREAM STRUCTURE

TOWN: N/A DISTANCE: N/A
 HIGHWAY #: N/A STRUCTURE #: N/A
 CLEAR SPAN: N/A CLEAR HEIGHT: N/A
 YEAR BUILT: N/A FULL WATERWAY: N/A
 STRUCTURE TYPE: N/A

DOWNSTREAM STRUCTURE

TOWN: N/A DISTANCE: N/A
 HIGHWAY #: N/A STRUCTURE #: N/A
 CLEAR SPAN: N/A CLEAR HEIGHT: N/A
 YEAR BUILT: N/A FULL WATERWAY: N/A
 STRUCTURE TYPE: N/A

LFD LOAD RATING (TONS)

LOADING LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A STR.	4A STR.	SA SEM
INVENTORY	0	0					
POSTED	0	0	0		0	0	0
OPERATING		0	0	0	0	0	

COMMENTS: 0

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2000	3300	460	51	1	55
2020	4450	610	51	1	75

20 year ESAL for flexible pavement 2000 to 2020 : 199,000
 40 year ESAL for flexible pavement 2000 to 2040 : 457,000
 Design Speed : 25 km/h

PROPOSED STRUCTURE

STRUCTURE TYPE: CONCRETE RIGID FRAME
 CLEAR SPAN(NORMAL TO STREAM): 10.330 m
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A

WATER SURFACE ELEVATIONS AT:
 Q2.33 = N/A VELOCITY= N/A
 Q10 = N/A " N/A
 Q25 = N/A " N/A
 Q50 = N/A " N/A
 Q100 = N/A " N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: N/A
 FREQUENCY: N/A
 RELIEF ELEVATION: N/A
 DISCHARGE OVER ROAD @Q100: N/A

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 136.470 m
 VERTICAL CLEARANCE: 6.3 m

SCOUR: N/A

REQUIRED CHANNEL PROTECTION: N/A

PERMIT INFORMATION

AVERAGE DAILY FLOW: N/A DEPTH OR ELEVATION:
 ORDINARY LOW WATER: N/A N/A
 ORDINARY HIGH WATER: N/A N/A

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/R
 CLEAR SPAN (NORMAL TO STREAM):
 VERTICAL CLEARANCE ABOVE STREAMBED:
 WATERWAY AREA OF FULL OPENING:

ADDITIONAL INFORMATION

- REQUIRED VERTICAL CLEARANCE ABOVE RAILROAD TRACK IS 6.3 m
- DURING CONST. REQ. CLEARANCE ABOVE RAILROAD TRACK IS 5.79 m
- REQ. HORIZ. CLEARANCE IS 2.74 m FROM CL OF TRACK (EACH SIDE)
- DURING CONST. REQ. HORIZ. CLEARANCE IS 2.74 m FROM CL OF TRACK (EACH SIDE)

DESIGN CRITERIA

- DESIGN LIVE LOAD AASHTO MS 22.5 (HS-25)
- DESIGN SPAN 10.333 meters
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A ON LEDGE
- ALLOWABLE LOAD FOR PILING 745 kN/pile
 TYPE HP 360 x 108
 ESTIMATED LENGTH Frame Leg 1 = 29 m, Frame Leg 2 = 32 m
- STRUCTURAL STEEL AASHTO GRADE N/A
- REINFORCING STEEL GRADE 420
- CONCRETE CLASS A f'c : 30 Mpa
 CONCRETE CLASS B f'c : 25 Mpa
 SILICA - FUME CONCRETE f'c : 35 Mpa
- SOIL UNIT WEIGHT
- DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL TO BE OBTAINED

TRAFFIC MAINTENANCE

- IS TRAFFIC TO BE MAINTAINED? NO
 IF YES, ON EXISTING STRUCTURE
 OR ON TEMPORARY BRIDGE
- TEMPORARY BRIDGE REQUIREMENTS: ONE OF TWO WAY
 TRAFFIC CONTROL SIGNALS REQUIRED
 MINIMUM CLEAR SPAN (NORMAL TO STREAM):
 WATERWAY OF FULL OPENING:
 VERTICAL CLEARANCE ABOVE STREAMBED:
 ARE SIDEWALKS REQUIRED?
 IF SO, ON WHAT SIDE?
 STRUCTURE TYPE:

THIS SHEET FOR ROW USE ONLY

PROJECT NAME: WATERBURY
 PROJECT NUMBER: BRO 1446 (26) MAR 8 2004
 FILE NAME: 02-PRELIMINARY INFO.XLS PLOT DATE: 3/5/2003
 PROJECT LEADER: G. EDWARDS / R. GINGRAS DRAWN BY: M. MEILLEUR
 DESIGNED BY: M. MEILLEUR CHECKED BY: R. GINGRAS
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